



PATENT
Attorney Docket No. OPT-008CP2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Hallemeier et al.
SERIAL NO.: 10/707,729 GROUP NO.: Not yet assigned
FILING DATE: January 7, 2004 EXAMINER: Not yet assigned
TITLE: OPTICAL FIBER TRANSMISSION SYSTEM WITH INCREASED
EFFECTIVE MODAL BANDWIDTH TRANSMISSION

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. BOX 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the provisions of 37 C.F.R. §1.97, Applicants hereby make of record the references listed on the accompanying Form PTO-1449 for consideration by the Examiner in connection with the examination of the above-identified patent application. Copies of the references are enclosed.

REMARKS

In accordance with the provisions of 37 C.F.R. §1.97, this statement is being filed (CHECK ONE):

- ☒ (1) within three (3) months of the **Filing Date** or before the mailing date of the **First Office Action** on the merits; or
- ☐ (2) after the period defined in (1) but before the mailing date of a **Final Rejection** or **Notice of Allowance**, and
- ☐ the requisite Statement is below, **OR**
- ☐ the requisite fee under Rule 1.17(p), namely **\$180.00**, is included herein, or
- ☐ (3) after the mailing date of a **Final Rejection** or **Notice of Allowance** but before the payment of the **Issue Fee**, **AND**
- ☐ Applicant hereby Petitions the Commissioner to accept and consider the attached Information Disclosure Statement, **AND**
- ☐ the requisite Statement is below, **AND**
- ☐ the requisite petition fee due under Rule 1.17(i)(I), namely **\$130.00** is included herein.

It is respectfully requested that each of the references shown on the attached Form PTO-1449 be made of record in this application.

STATEMENT

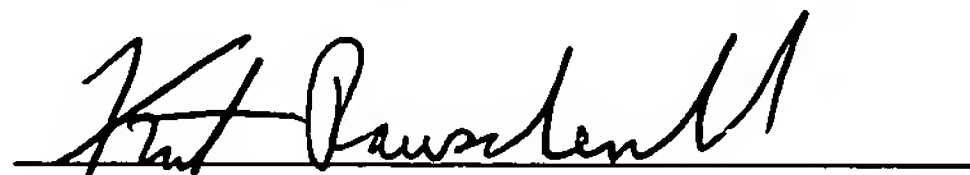
As required under §1.97(e), Applicants, through the undersigned, hereby state either that [check the appropriate space]:

- ☐ 1. [E]ach item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application **not more than** three months prior to the filing date of the Information Disclosure Statement; or
- ☐ 2. [N]o item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any** individual designated in §1.56(c) **more than** three months prior to the filing of the Information Disclosure Statement.

FEE AUTHORIZATION

Should any fee associated with the submission of this paper not be attached hereto as a check, the Commissioner is authorized to charge the missing fee to our Deposit Account, No. 501211. Any overpayments should be credited to said Deposit Account.

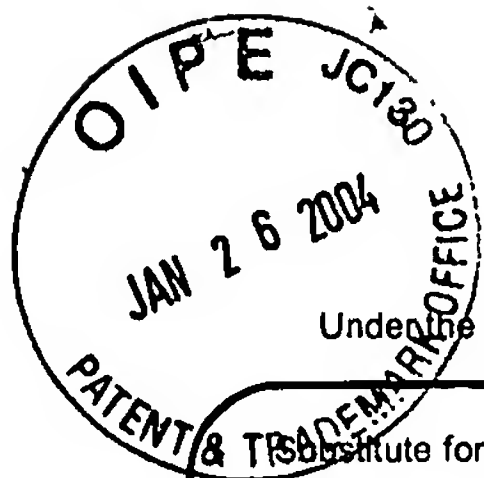
Respectfully submitted,



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PTO/SB/08b (08-03)

Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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|---|---|----|---|--------------------------|------------------|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Complete if Known | |
| | | | | Application Number | 10/707,729 |
| | | | | Filing Date | 01/07/2004 |
| | | | | First Named Inventor | Hallemeier |
| | | | | Art Unit | Not yet assigned |
| | | | | Examiner Name | Not yet assigned |
| Sheet | 1 | of | 1 | Attorney Docket Number | OPT-008CP2 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|--------------------------|--|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | C1 | HAAS, A Mode-Filtering Scheme For Improvement Of The Bandwidth-Distance Product In Multimode Fiber Systems, Journal of Lightwave Technology, July 1993, Pgs. 1125-1131, Vol. 11, No. 7, IEEE. | |
| | C2 | GANDHI, ET AL., Electronic Dispersion Compensation, Santel Networks, Inc., 2002. | |
| | C3 | DONLAGIC, ET AL., Propagation Of The Fundamental Mode In Curved Graded Index Multimode Fiber And Its Application In Sensor Systems, Journal of Lightwave Technology, March 2000, Pgs. 334-342, Vol. 18, No. 3, IEEE. | |
| | C4 | BROWN, Bandwidth And Rise Time Calculations For Digital Multimode Fiber-Optic Data Links, Journal of Lightwave Technology, May 1992, Pgs. 672-678, Vol. 10, No. 5, IEEE. | |
| | C5 | DONLAGIC ET AL., Microbend Sensor Structure For Use In Distributed And Quasi-Distributed Sensor Systems Based On Selective Launching And Filtering Of The Modes In Graded Index Multimode Fiber, Journal of Lightwave Technology, October 1999, Pgs. 1856-1868, Vol. 17, No. | |
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| Examiner Signature | | Date Considered | |
|-----------------------|--|--------------------|--|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.